

1    **Claims**

- 2    1.    A selective one-way wrench comprising:
- 3       a handle;
- 4       an annular head from which the handle projects, the annular head
- 5       defines a first space and a second space communicated with the first
- 6       space;
- 7       a gear rotationally put in the first space, the gear including a toothed
- 8       external face;
- 9       a direction controller put in the second space, the direction controller
- 10       including two pawls and a spring installed between the pawls each
- 11       including a rod formed thereon and a toothed face;
- 12       a driver put rotationally in the second space, the driver including two
- 13       fingers selective one of which contacts the rod of selective one of the
- 14       pawls so as to bring the toothed face of the selected pawl into
- 15       engagement with the toothed external face of the gear; and
- 16       a direction switch installed rotationally on the annular head and
- 17       operably connected with the driver.
- 18    2.    The selective one-way wrench according to claim 1 wherein the
- 19       direction switch includes a lever that is operable for the rotation
- 20       thereof.
- 21    3.    The selective one-way wrench according to claim 1 including a
- 22       countersink hole communicated with the second space, and the
- 23       direction switch is inserted into the second space through the
- 24       countersink hole.
- 25    4.    The selective one-way wrench according to claim 3 wherein the
- 26       direction switch includes a disc and a shaft extending from the disc,

- 1           and the driver is attached to the shaft.
- 2    5.    The selective one-way wrench according to claim 4 wherein the  
3           direction switch further includes a ridge extending from the shaft,  
4           the driver defines a recess for receiving the ridge.
- 5    6.    The selective one-way wrench according to claim 1 wherein each of  
6           the pawls defines a recess for receiving an end of the spring.
- 7    7.    The selective one-way wrench according to claim 3 including a  
8           C-ring, wherein the direction switch defines an annular groove in an  
9           external side for receiving an internal edge of the C-ring, and the  
10          annular head defines an annular groove in the wall of the  
11          countersink hole for receiving an external edge of the C-ring.
- 12   8.    The selective one-way wrench according to claim 1 wherein the  
13          gear is an annular gear.
- 14   9.    The selective one-way wrench according to claim 1 wherein the  
15          gear includes an insert for insertion into a socket.
- 16   10.   The selective one-way wrench according to claim 9 including a  
17          detent attached to the insert for contact with the socket.
- 18   11.   The selective one-way wrench according to claim 10 including a  
19          control device for controlling the movement of the detent.
- 20   12.   The selective one-way wrench according to claim 11 wherein the  
21          control device includes an aperture defined in the insert for trapping  
22          the detent, a space defined in the insert and communicated with the  
23          aperture and a rod movable in the space for pushing the detent from  
24          the aperture.
- 25   13.   The selective one-way wrench according to claim 12 wherein the  
26          annular head defines an aperture through which the rod is inserted

1           into the space defined in the insert.

2   14.   The selective one-way wrench according to claim 13 wherein the  
3       rod includes a hole for receiving the detent in the withdrawn  
4       position.

5   15.   The selective one-way wrench according to claim 14 wherein the  
6       control device includes a spring compressed between a portion of  
7       the rod and a portion of the gear.

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